Index of Claims

| Application No. | Applicant(s) |      |  |
|-----------------|--------------|------|--|
| 09/872,693      | WIENS, JAC   | K A. |  |
| Examiner        | Art Unit     |      |  |
| Xiuqin Sun      | 2863         |      |  |

| 1  | Rejected |
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| 11 | Allowed  |

(Through numeral)
Cancelled

Restricted

Non-Elected
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O Objected

|   |           |             |              |          |               |          |          |          |              |                   |          |               | -        |           |          |          | _                | J  | ۳                  | _  |                   |          |              |             | J        | L  |          | <del>:</del>  |          | _         |          |          | الــ     |          |
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| Cla   | aim       | n Date      |              |          |               | Ä        | Cl       | aim      | Date         |                   |          |               |          |           |          |          |                  | H  |                    | laim   | _                 | Date     |              |             |          |  |          |               |          |           |          |          |          |          |
| 1 -   | <u>m</u>  | 4           |              |          |               |          |          |          | П            |                   | ŢŢ       |               |          | T         | ١.       |          | Γ.               |  | Ī                  | ٦  |                   | -        | 靐            | — <u>~</u>  |          | +  | Ŧ        | i             | $\neg$   | ᆛ         | ate      |          | _        |          |
| Final   | Original  | 5/11/04     |              |          |               | ĺ        |          | '        |              | - 1               |          | ā             | Original |           | l        | .        |                  |  |                    | ļ  | •                 |          |              | <u>_</u>    | Original |  |          | -             |          |           |          |          |          |          |
| ΙŒ  | Ę         | 51          |              |          | ı             |          |          | ,        | ŀ            | -                 | IJ.      | Final         | ŀĒ.      |           |          |          | :                |  |                    | - ]  | ľ                 |          |              | Final       | į        |  |          |               | ١.       | -         |          | . [      | ı        |          |
| · .   |           | 1           |              |          | ٠ ۱           |          |          |          | - 1          | .                 |          |               | 0        |           |          | li       |                  |  | -                  |  | - 1               |          |              |             | ŏ        | 1  |          | 1             |          | ı         | - [      |          | Ī        |          |
| <u></u>   | 1         |             |              | Ţ        |               |          |          |          |              | 7                 |          | _             | 51       |           |          | Н        | $\vdash$         | $\vdash$   | $\dashv$           | f  | +                 | -        |              |             | 101      | ╫  | +        | +             | 4        | 4         | 4        | 4        | 4        | 4        |
|   | 2         |             |              | $\neg$   | $\neg$        |          |          |          |              |                   | •        |               | 52       | -         |          | $\vdash$ | -                |  | -                  | -  | -+                |          | 34           |             |          |  | +        | 1.            | +        | 4         | 4        | _        | 4        | 4        |
|   | 3         | Į.          |              |          |               |          |          |          |              |                   | Ē        |               | 53       |           |          |          | -                |  | -                  |  |                   |          |              |             | 102      | +  | -        | +             | +        |           | $\perp$  | 4        | $\perp$  | 4        |
|   | 4         | V           | $\neg$       | $\neg$   |               |          | $\neg$   |          |              | 7                 |          |               | 54       | Н         | -        | $\vdash$ | -                | $\dashv$   | -                  | -+   | -                 | $\dashv$ |              |             | 103      |  | +        | +             | 4        | _         | 4        | 4        | $\bot$   | 4        |
| -   | -5-       | -           |              | Т        | Ì             |          |          |          |              | 7                 |          |               | √55      | Н         | -        |          |                  | -  | +                  | -+   | +                 | ᆛ        | ľ            |             | 104      | +-   | +-       | 4             | 4.       | 4         | 4        | $\perp$  |          |          |
|   | 6-        | - 1         |              | $\neg$   |               | 7        |          |          | T f          | 7                 |          |               | 56       | $\vdash$  | $\dashv$ | ┰        | $\dashv$         | $\dashv$   | +                  | $\dashv$   | -+                | $\dashv$ |              |             | 105      | 4  | $\perp$  | 4             | 4_       | _         | 4        |          |          |          |
|   | 7-        | - 1         |              | 7        | 7             |          | $\neg$   | _        | 1.           | -                 |          |               | 57       | $\vdash$  | $\dashv$ | -        | $\dashv$         | -  | +                  | $\dashv$   | -                 | -        | 37E          |             | 106      | ╀  | 4        | 1             | 1        | 1         | _        | $\perp$  | $\perp$  |          |
|   | 8         | - 1         |              | ┪        | 7             | 7        | 寸        | $\neg$   | $\dashv$     | 1                 |          | -             | 58       | $\vdash$  | -        | $\dashv$ | $\dashv$         | -+   | +                  | -+   | 4                 |          |              | _           | 107      | <del> </del> _                                 | 4        | 1             | 4        | ┸         | $\perp$  |          | L        | i        |
|   | 9         | 1           |              | $\top$   |               |          | _        | 7        | $^+$         | ٦,                | ो        |               | 59       |           | $\dashv$ | $\dashv$ | -                | $\dashv$   | $\dashv$           | $\dashv$   | -                 | 4        | ni.          |             | 108      | _  | $\perp$  | 1             | ┸        | ┸         | _        | ᆚ        | L        |          |
|   | 10-       | - 1         | 1            |          | 7             | 7        | _        | _        | <del></del>  | -13               | ŀ        | $\neg$        | 60       | $\dashv$  | ↤        | $\dashv$ | -                | +  |                    | 4  | -                 | 4        |              |             | 109      | _  |          |               | ┸        |           |          |          | ]        |          |
|   | 11        | 1           | -            | 7        |               | +        | 1        |          | +            | -13               | ١,       | -             |          | -         | 4        | -+       |                  | -  | 4                  | 4  | 4                 | _        | ٦L           |             | 110      | <u> </u>                                       | L        | Ŀ             |          |           |          | Τ        | Т        |          |
|   | 12        | 1           | $\dashv$     | +        | +             | $\dashv$ | +        | +        | +            | -                 | ii)      |               | 61       | -         | -        | +        | -                |  | _                  | -  | 4                 |          |              |             | 111      | _  |          | L             | L        | $\perp$   |          | Τ        | Ī        | T        |
|   | 13        | 7           | +            | +        | +             | $\dashv$ | +        | +        | -            | -                 | ıŀ       |               | 62       | -+        | $\dashv$ |          | 4                | $\dashv$   | 4                  | 4  | _                 |          | L            |             | 112      |  | L        | L             | Γ        | Ι         | T        |          | 7        | T        |
| $\vdash$  | 14        | 7           | $\dashv$     | +        | +             | $\dashv$ | $\dashv$ | $\dashv$ | +            | 4                 | ŀ        |               | 63       |           | -+       | 4        | _                |  | 4                  | $\perp$  |                   |          | ĦL           |             | 113      | Ŀ  |          |               | Γ        | Τ         | T        | T        | 1        | 1        |
|   | 15        | T           | +            | +        | +             | +        | +        | -+       | -            | -                 | ŀ        |               | 64       | _         | _        | 4        | _                |  | _                  |  |                   | _]       | ::[          |             | 114      |  | Γ        | Г             | Ī.       | T         | Ť        | 1        | $\top$   | 1        |
| <del>                                     </del>  | 16        | 1           | -            | +        | +             | +        | $\dashv$ | +        |              | 4                 | L        |               | 65       | _         | $\perp$  | -        | _                |  |                    | $\perp$  | _L                | _]       |              |             | 115      | .,   |          |               |          | 1         | ┰        | +        | 1.5      | +        |
| -   | 17        | #           | +            | +        | +             | +        | +        | +        |              | _                 | Ļ        |               | 66       |           |          |          | $\perp$          |  |                    |  | Ī                 |          | HΓ           |             | 116      |  |          |               | T        | +         | +-       | ╁        | +        | +-       |
| $\vdash$  | 18.       | V           | -            | +        | -             | +        | 4        | +        | -            | -1                | ij,      |               | 67       | _         |          |          |                  |  |                    |  |                   | 77       |              | $\Box$      | 117      | _  |          |               |          | +         | +        | +        | +        | ╁        |
| $\vdash$  |           |             |              | 4        | 4             | -        | 1        | 4        |              | 4                 |          |               | 68.      |           |          | <u>.</u> |                  |  | $\neg \vdash$      | 1  | Ţ                 |          |              |             | 118      |  | 1        |               | ┢        | $\dagger$ | +        | +        | +-       | ┿        |
| $\vdash$  | 19        | <b>V</b>    | 4            | 4        | 4             | 4        | $\perp$  |          |              |                   | IIL      |               | 69       |           |          | T        | Т                | Т  |                    | T  | 7                 | 7        |              |             | 119      | _  |          | -             | +-       | ╁╴        | ┿        | +-       | +-       | +-       |
| <u> </u>  |           | 1           | $\perp$      | _        | $\perp$       | 1        |          |          |              | _                 | L        | _             | 70       | Ţ         | Т        |          | Ţ                | 7  | 7                  | 1  | ┪                 | 7        | 1            | $\neg +$    | 120      | -  | $\vdash$ | <del> -</del> | -        | ╁╌        | ╁        | +-       | +-       | +-       |
|   |           | V           |              | 1        | 1             | 丄        | $\perp$  | $\perp$  |              |                   |          |               | 71       | Т         |          | 7        |                  | $\top$   | -                  | 7  | +                 | 7        | -            | _           | 121      | _  | -        | _             | ┝╌       | ╁╴        | ┿        | +-       | +        | +-       |
|   |           | 1           | Щ.           | Т.       | ┸             |          | $\perp$  |          |              |                   | ŰΕ       |               | 72.      | Ŧ         | 1        | $\neg$   | 1                | 1  |                    | $\top$   | $\top$            |          | ŀ            |             | 122      | -  | H        | _             | -        | ╁         | +        | ╄        | }-       | ┼        |
|   |           | 1           | $\perp$      |          | $\perp$       |          |          |          |              | 7                 | ſ        |               | 73       | 7         | $\top$   | ┪.       | +                | +  | +                  | 十  | +                 | $\dashv$ | <b>\</b>     | -+          | 123      |  |          | -             | ⊢        | ⊢         | ╬        | ┿-       | $\vdash$ | ₩        |
|   |           | <b>√</b>    |              | L        |               |          |          |          |              | 1                 | ŀΓ       |               | 74       |           | 7        | 7        | $\top$           | 7  | 1.                 | +  | +                 | 1:       | ·            | <del></del> | 124      | -  | Н        | _             | -        | ├         | +-       | ╄        | ┼-       |          |
|   | 25        | √.          | 丄            | L        | 1.            |          | -        | Т        |              | 70                |          |               | 75       | $\neg$    | $\top$   | $\top$   | +                | +  | +                  | +  | +                 | 45       | ╌├           |             | 125      | _  | H        |               | <u> </u> | ⊢         | +-       | ┼-       | ╄        | ╁        |
|   |           | 1           |              |          | Γ             | Т        | Т        | T        | $\top$       | 7.5               | 4        |               | 76       | Ť         | $\top$   | +        | $\top$           | +  | ÷                  | ╁  | ╁                 | 48       | -            | -+          | 126      |  |          |               | _        | ├_        | +        | ↓_       | L        | ↓_       |
|   | 27        | $\Box \Box$ | ,            | Т        |               | •        |          |          |              | 7                 | 广        |               | 77       | +         | +        | +        | ╁                | +  | ┿                  | +  | +                 | -        | -            |             |          |  |          |               |          | ļ_        | 4        | <b>Ļ</b> | ot       | $\perp$  |
|   | 28        | T           |              | $\top$   | 7             |          |          | ╅        | $\top$       | 10                | 上        |               | 78       | +         | +        | +        | +                | +-   | +-                 | +-   | +-                | - ;;     | $\vdash$     | -           | 127      |  |          | _             |          | <u> </u>  | ↓.       | $\perp$  | 乚        |          |
|   | 29        |             |              | $\top$   | 1             | +        | †        | 十        | <del> </del> | 1:                | H        |               | 79       | +         | ┰        | ┰        | ╅                | +  | +                  | ┿  | +                 | -        | L            |             | 128      |  |          |               |          | _         | L        | _        | L        | $\Box$   |
| 4   | 30        |             |              | 1        | 1             | 1        | +        | $\top$   | +-           | 1a                |          | $\rightarrow$ | 80       | +         | +        | +        | +                | +  | ┿                  | ┿  | -                 | -1       | 4            |             | 129      | _  | _        | _             |          | _         |          | L        | Ŀ        |          |
|   | 31        |             |              | †        | 十             | +        | +        | 十        | +-           | 憬                 | 十        |               | 81       | +         | +        | +        | +                | +  | +                  | ╀  | 4                 | 4        | Ĺ            |             | 130      |  |          |               | ٠        |           |          | L        | L        |          |
| . 1   | 32        | 十           | +            | +        | ╁             | ╁        | +        | ╅        | +            | 10                | -        |               | 82       | +         | ╬        | +-       | +                | +  | +-                 | +  | _                 | 4        | _            |             | 131      | $\Box$   |          |               |          |           |          | Ι        | Ī        |          |
|   | 33        | _           | +            | +        | +             | ╁        | +        | +        | +-           |                   | ]-       |               | 02       | +         | +        | +        | +-               | 4  | +                  | 1  | 4                 | _ ՝՝     | L            |             | 132      |  |          |               |          |           |          |          |          |          |
|   | 34        | +           | +            | +-       | ╁╴            | +-       | +        | +-       | +-           | H                 | -        |               | 83       | -         | +        | +-       | +                |  | +-                 | 1_   | ↓_                | 4        | L            | 1           | 133      |  |          | $\Box$        |          |           |          | $\Box$   |          |          |
| <del>-                                     </del> | 35        | +-          | +            | ╁╌       | +             | +        | ╁        | +        | +            | ł                 | -        |               | 84       | 4         | +        | +        | +                | 1  | $\perp$            | $\perp$  | _                 | ₫.       | Ľ            |             | 134      | $\Box$   |          | 7             | •        |           |          |          |          | П        |
| <del>-   ;</del>                                  | 36        | ╅           | +            | ╆        | +             | ╁        | -        | ╁        | +-           | 7.                | -        |               | 35       | +         | $\bot$   | +-       | +-               | 4  | 1                  | _  | 1_                | 12       | L            | $\Box$      | 135      |  |          | П             |          |           |          |          |          | М        |
|   | 37        | +           | +            | +        | ╁             | ╁        | +        | +-       | +-           | 10                | $\vdash$ |               | 36       | $\perp$   |          | $\perp$  | $\perp$          | $\perp$  | Ŀ                  | <u>L</u>   | $\perp$           | اا       | ľĽ           | $\Box$      | 136      | $\top$   |          | 1             | $\Box$   |           |          |          | $\neg$   | М        |
|   | 38        | +           | +            | ╁        | ╀             | +        | +-       | +-       | +-           | 154               | ⊬        |               | 37       | <u> </u>  | 4        | 1        | 1                | $\perp$  | _                  | L  |                   | ] a.,    | ľ            | $\Box$      | 137      | $\neg$   |          | $\dashv$      |          |           | $\vdash$ | Н        |          | Н        |
|   | 39        | +           | +-           | ├-       | ╁             | +-       | +-       | +-       | _            | lti               | $\vdash$ |               | 38       | 1         | _        | $\perp$  | L                | L  | Ŭ.                 | Ľ  | $\prod_{i=1}^{n}$ |          | i C          | 1           | 38       | $\dashv$                                       | $\top$   | ヿ             | $\dashv$ | . 4       | -        | Н        | $\dashv$ | _        |
| -+3   | 10        | +           | +            | -        | <del> -</del> | +-       | ╁        | Ļ        | _            | 뗅                 | $\vdash$ |               | 39       | 1         | L        | $\perp$  |                  | $oldsymbol{ol}}}}}}}}}}}}}}}}$ | $oxedsymbol{oxed}$ |  |                   | ]:       | Г            | . 1         | 39       | $\top$   | 1        | $\forall$     | $\dashv$ |           | -        | H        | $\dashv$ | $\dashv$ |
| - 1-5   | 11        | ┿           | +-           | -        | -             | ┼        | <b></b>  | +        | ــ           | W.                | L        |               | 90       |           | Ţ        | $\perp$  |                  |  | 2                  | Г  |                   |          | Г            | 1           | 40       | +  | +        | $\dashv$      | $\dashv$ | $\dashv$  |          |          | $\dashv$ | $\dashv$ |
| - 14  | <u>::</u> | +           | $\vdash$     | <u> </u> |               | ↓_       | +        | <u> </u> | Ŀ            | i.                | L        |               | 1        |           | L        | $\perp$  | $\mathbf{I}^{-}$ |  | Π                  |  |                   |          |              |             | 41       | $\dashv$                                       | +        | +             | -        | -         | Н        | -        | $\dashv$ | $\dashv$ |
|   | 12        | +           | ┼            | _        | <del> </del>  | ╀_       | 1.       | _        | $\sqcup$     | 100<br>100<br>100 | L        | 9             | 2        | $\perp$   |          |          |                  |  |                    | Γ  |                   |          |              | _  i        | 42       | $\dashv$                                       | . †      | +             | -        |           | $\dashv$ | $\dashv$ | 7        | $\dashv$ |
| -   4   | 13        | +           | ↓_           | <u> </u> | L             | 1.       | _        |          |              | 鰳                 | Ĺ        |               | 93       | Τ.        | 1        | T        | 1                | T  | 1                  | Ι-   | 1                 |          |              | 1           | 43       | +  | +        | +             | Ϋ        | ·         |          |          | -+       | $\dashv$ |
| 4   | 14        | 4_          | _            |          |               | L        | ŀ        | L        |              | M                 |          | 9             | )4       |           |          | 1        | T                | 1  | T                  | 1  | $\vdash$          |          | -            | +           | 44       | +  | +        | +             | +        |           |          |          | $\dashv$ |          |
|   | 5         | _           | $oxed{oxed}$ |          | L             | $\Box$   | Ŀ        | L        |              | Ħ                 |          | 9             | 5        |           | $\top$   | 1        | 1-               | T  | $\vdash$           | Ι-   | <u> </u>          | 憓        | $\vdash$     | +-          | 45       | +  | +        | +             | +        | $\dashv$  |          | -        |          | 4        |
| 4   | 6         |             |              |          |               | L        | Ĺ        | $\Box$   |              |                   |          |               | 6        | $\top$    | T        | T        | 1                | t  | $\vdash$           | <del>                                     </del> | $\vdash$          |          | -            |             | 46       | +  | +        | +             | +        | -         |          | -        | 4        | _        |
| 4   | 7         | 1_          | $\Box$       |          |               |          |          |          |              |                   |          | 9             | 7        | T         | t        | +        | 1                | T  | t                  | $\vdash$   | $\vdash$          | 100      | -            |             | 47       | -+-  | +        | +             | +        |           |          | _        | $\dashv$ | _        |
| 4   | 8         |             | $\Box$       |          |               |          | Г        |          |              | で <b>ま</b><br>ある  | Г        | 9             |          | $\dagger$ | †        | †-       | 1                | +  | 1                  | +  | <u> </u>          |          | <del> </del> |             |          | +  | 4        | 4             | +        |           | _        | _        | 4        | $\Box$   |
| 4   | 9         | <u> </u>    |              |          |               | Г        |          | Γ        |              |                   |          | 9             | 9        | 1         | +        | +        | ╁                | -  | -                  | -  | $\vdash$          | 15       | $\vdash$     |             | 48       | +  | _        | +             | 4        | _         | [        | _        |          | $\Box$   |
| 5   | 0         |             | П            |          |               |          | Γ        | Г        | г            | 11.               | _        | 1/            | 50       | +-        | +        | +-       | +-               | -  | $\vdash$           |  | $\vdash$          |          | H            |             | 49       | <u>.                                      </u> | 4        | _             | $\perp$  | $\perp$   |          | _        |          | -        |